



BROAD AGENCY ANNOUNCEMENT (BAA)

INTRODUCTION:

This publication constitutes a Broad Agency Announcement (BAA) as contemplated in Federal Acquisition Regulation (FAR) 6.102(d)(2), and the Department of Defense Grants and Agreements Regulations (DoDGARS) 22.315(a). A formal Request for Proposals (RFP), other solicitations or additional information regarding this announcement will not be issued.

The Office of Naval Research (ONR) will not issue paper copies of this announcement. The ONR reserves the right to fund all, some or none of the proposals received under this BAA. ONR provides no funding for direct reimbursement of proposal development costs. Technical and cost proposals (or any other material) submitted in response to this BAA will not be returned. It is the policy of ONR to treat all proposals as sensitive competitive information and to disclose their contents only for the purposes of evaluation.

I. GENERAL INFORMATION

1. Agency Name

Office of Naval Research,

2. Research Opportunity Title

Electronics Technology

3. Program Name

Electronics Discovery and Invention (D&I)

4. Research Opportunity Number -

BAA 08-006

5. Response Date -

White Papers: 4 PM Friday 14 April, 2008

Full Proposals: 4 PM Tuesday 1 August, 2008

6. Research Opportunity Description -

The goal of the electronics program is to develop and transition affordable, high performance Radio Frequency (RF) electronics that will provide a decisive edge to the warfighter. The program encompasses RF research, design, modeling, fabrication, and testing of devices, integrated circuits, and multi-chip assemblies that span digital, analog, microwave and millimeter wave technologies. The technology developed cannot be obtained through Commercial-Off-the-Shelf (COTS) products as a result of the requirements placed on power, frequency, linearity, bandwidth (instantaneous and operating), weight, and size.

The applications areas that provide the strongest pull for the Electronics Program are Electronic Warfare, Surveillance, and Communications technologies. Within Surveillance the primary thrusts are Apertures and Architectures, Information Extraction and Exploitation, and Asymmetric Threat Detection. Within Electronic Warfare the primary thrusts are Self Protection/Counter Targeting, Threat Warning/Situational Awareness, and Network Centric/Mission Support. Within Communications the primary thrusts are Spectral and Energy Efficient Radio/Antenna Technology, Tactical Communications, and Tactical Networking.

The Office of Naval Research (ONR) is interested in receiving proposals for efforts that aim to develop and demonstrate science and technology for the next generation (2009 – 2012) electronics devices under the following focus area:

Multifunction Satellite Communication (SATCOM) Component Development

Within this focus area proposals are sought for the development of high performance (<2 dB system noise figure), wideband phased array components that can significantly impact co-site interference for use within the 7 – 22 GHz frequency band in a multifunction SATCOM system. The receiver components in such a system cannot degrade the front-end noise figure performance to the extent that the system requires growth of the aperture size beyond that of a narrow band case, given a suitable gain/temperature (G/T) for the given satellite communications application. Offerors must include a detailed quantitative trade study to determine the critical components required to meet the <2 dB system noise figure (which may be architecture dependent) and substantiate claims of any improvement relative to current state of the art. Offerors should describe both the specific component(s) they will develop and the way the specific component(s) would be incorporated into such a system. Offerors must also show how the approach impacts cosite interference mitigation. During any Option Phase(s) the most critical component(s) required to meet the noise figure requirement will be developed. The component(s) must be capable of being extended to

complete multifunction systems that support the radar, communications, and electronic warfare functions. Analog and digital approaches are acceptable.

ONR is also receptive to game-changing concepts in electronics technology areas that are outside the designated focus area that can significantly impact the performance of Navy and Marine Corps electronic systems such as (but not limited to) the following:

RF Solid State Power Amplifiers

Provide for the development of solid state power amplifier technology for Navy all-weather radar, surveillance, reconnaissance, electronic attack, communications, and asymmetric warfare systems. The technology developed cannot, for the most part, be obtained through COTS products as a result of the simultaneous requirements placed on power, frequency, linearity, bandwidth, weight, and size. Topics of interest include but are not restricted to the development of solid state devices and circuits using Group III-V material technologies to realize high power added efficiency, high-power amplifiers

RF Supporting Technologies:

Provide for the radiation, reception, signal control and processing of microwave (MW) and millimeter wave (MMW) power for Navy all-weather radar, surveillance, reconnaissance, electronic attack (EA), communications, and asymmetric warfare systems. The technology developed cannot be obtained through COTS products as a result of the requirements placed on power, frequency, linearity, bandwidth, weight, and size. Innovative solutions are sought in the areas of band pass and extreme spur-free dynamic range analog to digital converters (ADCs); ultra high-efficiency power digital-to-analog converters (Power-DACs) where distributed and /or noise shaping techniques may be considered; extremely high speed logic devices; compact isolators; frequency synthesizers; channelizers; circulators; electrically small antennas; and high power filters.

ONR has funded related technology development under numerous programs. Proposals that build on current or previous Department of Defense (DoD) work are encouraged. If Offerors are enhancing work performed under other ONR or DoD projects, they must clearly identify the point of departure and what existing work will be brought forward and what new work will be performed under this BAA.

This BAA will only address funding opportunities for the Fiscal Year (FY) 2009 Electronics Discovery and Invention (D&I) Program.

7. Points of Contact

Questions of a *technical nature* shall be submitted in writing to:

Dr. Ingham A. Mack
Program Manager
Electronics, Sensors, and Networks Research Division
Code 312
Office of Naval Research
875 North Randolph Street – Suite 909
Arlington, VA 22203-1995
E-mail Address: macki@onr.navy.mil

Questions of a business nature should be submitted to:

Primary:

Lynn Christian
Contract Specialist
Code BD 0251
Office of Naval Research
875 North Randolph Street, Suite 1425
Arlington, VA 22203-1995
E-Mail: christl@onr.navy.mil

Secondary:

Ms. Vera M. Carroll
Acquisition Branch Head
Contract and Grants Awards Management, Code 0251
Office of Naval Research
875 North Randolph Street, Suite 1425
Arlington VA, 22203-1995
E-mail: vera.carroll@navy.mil

8. Instrument Type(s) -

Awards may take the form of contracts or grants, as appropriate.

9. Catalog of Federal Domestic Assistance (CFDA) Number

CFDA No.: 12.300

10. Catalog of Federal Domestic Assistance (CDFA) Title

CFDA Title: DoD Basic and Applied Scientific Research

11. Other Information –

This announcement is restricted to basic and applied research. Contracts, grants and other awards made under this BAA are for scientific study and experimentation directed towards advancing the state of the art and increasing knowledge or understanding.

II. AWARD INFORMATION

ONR plans to make 1 to 2 awards that represent the best value to the Government in accordance with the evaluation criteria. ONR is seeking participants for this program that are capable of supporting the goals described in this announcement. Offerors have the opportunity to be creative in the selection of the technical and management processes and approaches to address the areas of interest described above.

The period of performance of the awards typically ranges from one to three years (base year and two option years). ONR anticipates a budget of approximately \$400,000 in Fiscal Year (FY) 2009 for the D&I Program with no funding under this BAA anticipated in FY2009 for the exploitation and deployment (E&D) or innovative naval prototype (INP) Programs. ONR plans to fund individual awards of \$200,000 to \$400,000 per year using Applied Research money. However, lower and higher cost proposals will be considered. The average funding level of past awards was approximately \$200,000 - \$500,000 per year. The estimated start date is 03 November 2008, subject to date of final award and availability of new fiscal year funds.

ONR may consider proposals from Government Entities, outside of this BAA, that may draw from this budget.

III. ELIGIBILITY INFORMATION

All responsible sources from academia and industry may submit proposals under this BAA. Historically Black Colleges and Universities (HBCUs) and Minority Institutions (MIs) are encouraged to submit proposals and join others in submitting proposals. However, no portion of this BAA will be set aside for HBCU and MI participation.

Federally Funded Research & Development Centers (FFRDCs), including Department of Energy National Laboratories, are not eligible to receive awards under this BAA. However, teaming arrangements between FFRDCs and eligible principal bidders are allowed so long as they are permitted under the sponsoring agreement between the Government and the specific FFRDC.

Navy laboratories and warfare centers as well as other Department of Defense and civilian agency laboratories are also not eligible to receive awards under this BAA and should not directly submit either white papers or full proposals in response to this BAA.

If any such organization is interested in one or more of the programs described herein, the organization should contact an appropriate ONR POC to discuss its area of interest. The various scientific divisions of ONR are identified at <http://www.onr.navy.mil/>. As with FFRDCs, these types of federal organizations may team with other responsible sources from academia and industry that are submitting proposals under this BAA.

Teams are encouraged to submit proposals in any and all areas. However, Offerors must be willing to cooperate and exchange software, data and other information in an integrated program with other contractors, as well as with system integrators, selected by ONR.

Some topics cover export controlled technologies. Research in these areas is limited to "U.S. persons" as defined in the International Traffic in Arms Regulations (ITAR) - 22 CFR § 1201.1 et seq.

IV. APPLICATION AND SUBMISSION INFORMATION

1. Application and Submission Process -

The Application and Submission Process will consist of three phases:

- Phase 1: White Papers
- Phase 2: Oral Presentations
- Phase 3: Full Proposals

Phase 1: White Papers

Process: If an offeror does not submit a white paper before the due date and time, it is not eligible to participate in the remaining oral presentation and full proposal submission process.

Due Date: The due date for receipt of white papers is no later than 4:00PM (Eastern Daylight Time) on Monday, 14 April 2008.

Evaluation/Notification: White papers will be evaluated and will be used to determine if an offeror is to be invited to make an oral presentation to a panel of government evaluators. The process for oral presentations is described below. Oral presentations will be scheduled for those offerors who have been notified via e-mail that their proposed technologies appear to be of "particular value" to the Navy. Selection of white papers considered as being of "particular value" will be announced on or about Friday, 2 May 2008. However, any such encouragement does not assure a subsequent award. Those white papers not selected for oral presentations will not be considered further under this announcement.

Phase 2: Oral Presentations

The purpose of the Oral Presentation is to better acquaint the Government with the offeror's proposal.

Process: Offerors whose white papers are selected for oral presentations will be invited via e-mail not less than five (5) working days prior to the commencement of the unclassified oral presentation event. The oral presentation event is planned for Thursday, 22 May 2008. A detailed format for the presentation will be provided in the e-mail invitation. Each presentation will be no longer than twenty-five (25) minutes in duration. An additional five (5) minutes will be allowed for questions (if any) from the panel of government reviewers.

Evaluation/Notification: Following oral presentations, offerors will be notified by e-mail regarding the Navy's response to their oral presentations. Those offerors whose technology is still considered as having "particular interest" to the Navy will be requested to submit full technical and cost proposals. However, such encouragement after oral presentations does not assure a subsequent award. Full proposals will not be considered under this BAA unless both a white paper was received by the due date specified above and a presentation was made during the Oral Presentation event and under both, the proposal appeared to be of "particular value" to the Navy. Evaluation of oral presentations and the subsequent request to submit full proposals will be completed on or about Friday 13 June 2008.

Phase 3: Full Proposals

Due Date: The due date for receipt of full proposals is no later than 4:00PM (Eastern Daylight Time) on Friday, 01 August 2008.

Evaluation/Notification: As soon as the final proposal evaluation process is completed, each offeror will be notified via email of its selection or non-selection for an award.

2. Content and Format of White Papers/Full Proposals –

White Papers and Full Proposals submitted under the BAA are expected to be unclassified.

Proposal submissions will be protected from unauthorized disclosure in accordance with FAR Subpart 15.207, applicable law, and DoD/DoN regulations. Offerors are expected to appropriately mark each page of their submission that contains proprietary information. The proposal shall include a severable, self-standing Statement of Work, which contains only unclassified information and does not include any proprietary restrictions.

The proposal format and content identified below are applicable to the submission of proposals for contracts and grants. As noted in Paragraph 5 below, proposals selecting grant awards are to be formatted as required by Standard Form 424 (R&R), which is available via the internet at <http://www.grants.gov/>.

a. WHITE PAPERS

White Paper Format

- Paper Size – 8.5 x 11 inch paper
- Margins – 1 inch
- Spacing – single or double-spaced
- Font – Times New Roman, 12 point
- Number of Pages – No more than seven (7) single-sided pages (excluding cover page and resumes). White Papers exceeding the page limit may not be evaluated..
- Copies – one (1) original, three (3) hard copies and one electronic copy on a CD-ROM (in Microsoft® Word or Excel 2003 compatible or .PDF format).

White Paper Content

• **Cover Page:** The Cover Page shall be labeled “PROPOSAL WHITE PAPER” and shall state that it is submitted in response to BAA 08-006. The white paper shall include the proposed title, technical and administrative points of contact, telephone number, facsimile number, and e-mail address and be signed by an authorized officer. The title given to the white papers should be descriptive of the work proposed and not be merely a copy of the title of this BAA.

• **Content:** The white paper submission should contain three sections, Technical Cost, and Resumes/Past Performance .

- Technical: The technical section shall be no more than four (4) pages and must address the following: Technical objective, Technical approach, Deliverables, Recent technical breakthroughs that will reduce risk, innovation, relevance and transition potential to Navy and the Marine Corps systems, proprietary aspects of the project and any assertions of data rights applicable to the results of this effort.
- Cost: The cost section shall be no more than two (2) pages. The first page should be a summary of costs segregated by each task. A statement should also be made under each task in which the use of government facilities is proposed. The second page should be a summary of costs segregated by cost category and should include a table with all costs summarized in thousands of dollars (by government fiscal year) as shown in the following example:

FY09	FY10	FY011	FY12	Total
\$xxxK	\$xxxK	\$xxxK	\$xxxK	\$yyyK

- Resumes and Past Performance: Curriculum Vitae (CV) of the primary investigator and any co-investigators; past performance on similar programs. This section must not exceed one (1) page - resumes not included in page count.

White papers exceeding any of these page restrictions may not be reviewed.

b. FULL PROPOSALS

Full Proposal Format – Volume 1 - Technical and Volume 2 - Cost Proposal

- Paper Size – 8.5 x 11 inch paper
- Margins – 1 inch
- Spacing – single or double-spaced
- Font – Times New Roman, 12 point
- Number of pages – Volume 1 is limited to no more than twenty-five (25) pages. Volume 2 has no page limit. The cover page, table of contents and resumes are excluded from the page limitations.
- Copies – one (1) original, three (3) hard copies and one electronic copy on a CD-ROM (in Microsoft® Word or Excel 2003 compatible or .PDF format). If a grant is sought, the full proposal may be submitted electronically at <http://www.grants.gov/> as delineated below.

Full Proposal Content

Volume 1: Technical Proposal

- **Cover Page:** This should include the words “Technical Proposal” and the following:
 - 1) BAA number (BAA 08-006);
 - 2) Title of Proposal;
 - 3) Identity of prime Offeror and complete list of subcontractors, if applicable;
 - 4) Principal Investigator (PI) Contact (name, address, phone/fax, electronic mail address)
 - 5) Administrative/business contact (name, address, phone/fax, electronic mail address) and;
 - 6) Duration of effort (differentiate basic effort and any proposed options)
- **Table of Contents:** An alphabetical/numerical listing of the sections within the proposal, including corresponding page numbers. (Not included in page limitations)
- **Executive Summary:** Summarize the technology you are proposing and the expected improvements to the Navy. Not to exceed one (1) page.
- **Concept of Operation for the Navy:** A description of the project objectives, the concept of operation for the new capabilities to be delivered, and the expected performance improvements. Not to exceed two (2) pages.

- **Statement of Work:** A Statement of Work (SOW) clearly detailing the scope and objectives of the effort. It is anticipated that the proposed SOW will be incorporated as an attachment or by reference to the resultant award instrument. To this end, such proposals must include a severable self-standing SOW, without any proprietary restrictions, which can be incorporated as an attachment or reference depending on the resultant award. Include a detailed listing of the technical tasks/subtasks organized by year. Not to exceed four (4) pages.

- **Project Schedule and Milestones:** A summary of the schedule of events and milestones. Not to exceed one (1) page.

- **Assertion of Data Rights:** For a contract award an Offeror may provide with its proposal assertions to restrict use, release or disclosure of data and/or computer software that will be provided in the course of contract performance. The rules governing these assertions are prescribed in Defense Federal Acquisition Regulation Supplement (DFARS) clauses 252.227-7013, -7014 and -7017. These clauses may be accessed at the following web address:

<http://farsite.hill.af.mil/VFDFARA.HTM>

The Government may challenge assertions that are provided in improper format or that do not properly acknowledge earlier federal funding of related research by the Offeror. Not to exceed one (1) page.

- **Technical Approach:** A detailed description of the approach planned, with sufficient detail to address technical risks and risk mitigation strategy. Not to exceed seven (7) pages.

- **Deliverables:** A detailed description of the results and products to be delivered inclusive of the timeframe in which they will be delivered. Not to exceed one (1) page. Note: Products (as opposed to reports providing research results) are only obtained under contracts.

- **Qualifications:** A discussion of previous accomplishments and work in this, or closely related, areas, and the qualifications of the investigators. Key personnel resumes shall be attached to the proposal and will not count toward the page limitations. Not to exceed three (3) pages.

- **Management Approach:** A discussion of the overall approach to the management of this effort, including brief discussions of the total organization, use of personnel, project/ function/ subcontractor relationships, government research interfaces, and planning, scheduling and control practice. Identify which personnel and subcontractors (if any) will be involved. Include a description of the facilities that are required for the proposed effort with a description of any Government Furnished Equipment/Hardware/Software/Information required, by version and/or configuration. Not to exceed five (5) pages.

- **Other Agencies:** Include the name(s) of any other agencies to which the proposal has also been submitted.

VOLUME 2: Cost Proposal

The Cost Proposal shall consist of a cover page and two parts, Part 1 will provide a detailed cost breakdown of all costs by cost category by calendar or Government fiscal year, and Part 2 will provide a cost breakdown by task/sub-task corresponding to the task numbers in the proposed Statement of Work. Options must be separately priced.

Although not required and provided for informational purposes only, detailed instructions, entitled “Instructions for Preparing Cost Proposals for Contracts and Agreements”, including a sample template for preparing costs proposals for contracts and agreements, may be found at ONR’s website listed under the ‘Acquisition Department – Contracts & Grants Submitting a Proposal’ link at: http://www.onr.navy.mil/02/how_to.asp

Cover Page: The use of the SF 1411 is optional. The words “Cost Proposal” should appear on the cover page in addition to the following information:

- BAA number (BAA 08-006);
- Title of Proposal
- Identity of prime Offeror and complete list of subcontractors, if applicable
- Technical contact (name, address, phone/fax, electronic mail address)
- Administrative/business contact (name, address, phone/fax, electronic mail address) and
- Duration of effort (separately identify basic effort and any proposed options);
- Summary statement of proposed costs

Part 1 – Contract Costs: Detailed breakdown of all costs by cost category by calendar or Government fiscal year:

- Direct Labor – Individual labor categories or persons, with associated labor hours and unburdened direct labor rates;
- Indirect Costs – Fringe Benefits, Overhead, G&A, COM, etc. (Must show base amount and rate);
- Proposed Contractor-Acquired Equipment - such as computer hardware for proposed research projects should be specifically itemized with costs or estimated costs. An explanation of any estimating factors, including their derivation and application, shall be provided. Where possible, indicate purchasing method (competition, price comparison, market review, etc);
- Travel – Number of trips, destination, duration, etc.;
- Subcontract – A cost proposal as detailed as the Offeror’s cost proposal will be required to be submitted by the subcontractor. The subcontractor’s or subrecipient’s cost proposal can be provided in a sealed envelope with the Offeror’s cost proposal or will be obtained from the subcontractor prior to Award*;
- Consultant – Provide consultant agreement or other document which verifies the proposed loaded daily/hourly rate;

- Materials - Should be specifically itemized with costs or estimated costs. An explanation of any estimating factors, including their derivation and application, shall be provided. Include a brief description of the Offeror's procurement method to be used (competition, engineering estimate, market survey, etc.);
- Other Directs Costs - particularly any proposed items of equipment or facilities. Equipment and facilities generally must be furnished by the contractor/recipient. (Justifications must be provided when Government funding for such items is sought). Include a brief description of the Offeror's procurement method to be used (Competition, engineering estimate, market survey, etc.);
- Grant Specific Costs – Costs not normally associated with contracts, such as Graduate Assistant tuition, laboratory fees, report and publication costs will be presented on SF 424(R&R) as discussed under Paragraph 5 below;
- Options – the Base Period of Performance and Option Periods must be priced at the submission of the proposal. Any proposal containing unpriced options cannot have those options included in the contract;
- Fee/Profit (“CONTRACT PROPOSALS ONLY”)

*** Note: DoD Federal Acquisition Regulation provision 252.215-7003 (48 CFR § 252.215-7003) is incorporated into this solicitation by reference. The offeror is to exclude excessive pass-through charges from subcontractors. The offeror must identify in its proposal the percentage of effort it intends to perform and the percentage to be performed by each of its proposed subcontractors. If more than 70 percent of the total effort will be performed through subcontracts, the offeror must include the additional information required by the above-cited clause.**

Part 1 –Grant Recipient : If prospective Grantee submits a Grant Cost/Budget Proposal via hardcopy in accordance with the Grants.gov format, the following information is provided as Cost/Budget proposal guidance. Detailed breakdown of all costs by cost category by calendar or Government fiscal year. The Cost Proposal/Budget should contain a detailed cost breakdown that includes:

- Direct Labor - Labor category with associate hours and unburdened labor rate;
- Graduate Assistant Tuition – Basis of estimate for Graduate Assistant Tuition;
- Indirect Costs – Fringe benefits, overhead, G&A, etc...;
- Equipment – Acquired equipment should be itemized with its associated cost along with the basis of estimate, i.e., quotes, invoices, catalog pricing;
- Laboratory Costs – Basis of estimate for Laboratory Costs, inclusive of an itemized list along with basis of estimate, i.e., quotes, invoices, catalog pricing;
- Report and Publication Costs – Basis of estimate for Report and Publication Costs;
- Recipient Share – i.e., Cost sharing
- Travel – Travel stating number of trips, destinations, duration, per diem, auto rental, privately owned vehicle (POV), etc...;
- Subrecipients – A cost budget proposal as detailed as the Recipient’s cost

proposal will be required to be submitted by the Subrecipient. The Subrecipient's cost budget proposal can be provided in a sealed envelope with the Recipient's cost budget proposal or will be obtained from the Subrecipient prior to Grant award;

- Consultants – Consultant agreements or other document which verifies the proposed loaded daily/hourly rate;
- Materials – Materials itemized with cost along with the basis of estimate;
- Conferences – if during the research effort, and Recipient requires a conference in support of the project, there should be a statement within the Recipient's cost budget proposal submission stating "the funds provided by ONR will not be used for food or beverages."

Part 2: Cost breakdown by task/sub-task corresponding to the same task breakdown in the proposed Statement of Work. When options are contemplated, options must be separately identified and priced by task/subtask corresponding to the same task numbers in the Statement of Work.

Note: Full proposals exceeding the page limit may not be evaluated.

3. Significant Dates and Times –

Event	Date	Time
White Paper Due Date	14 April 2008	4:00 PM Eastern Daylight Time
Notification of Selection: White Papers *	2 May 2008	
Oral Presentations *	22 May 2008	
Notification of Oral Presentation Evaluations*	13 June 2008	
Full Proposal Due Date	1 August 2008	4:00 PM Eastern Daylight Time
Notification of Selection: Full Proposals *	8 August 2008	
Contract Awards *	3 November 2008	

** These dates are estimates as of the date of this announcement.*

NOTE: Due to changes in security procedures since September 11, 2001, the time required for hard-copy written materials to be received at the Office of Naval Research has increased. Thus it is recommended that any hard-copy proposal be mailed several days before the deadline established in the solicitation so that it will not be received late and thus be ineligible for award consideration.

4. Submission of Late Proposals

Any proposal, modification, or revision that is received at the designated Government office after the exact time specified for receipt of proposals is "late" and will not be considered unless it is received before award is made, the contracting officer determines that accepting the late proposal would not unduly delay the acquisition and:

- If it was transmitted through an electronic commerce method authorized by the announcement, it was received at the initial point of entry to the Government infrastructure not later than 5:00 P.M. one working day prior to the date specified for receipt of proposals; or
- There is acceptable evidence to establish that it was received at the Government installation designated for receipt of proposals and was under the Government's control prior to the time set for receipt of proposals; or
- It was the only proposal received.

However, a late modification of an otherwise timely and successful proposal that makes its terms more favorable to the Government will be considered at any time it is received and may be accepted.

Acceptable evidence to establish the time or receipt at the Government installation includes the time/date stamp of that installation on the proposal wrapper, other documentary evidence of receipt maintained by the installation, or oral testimony or statements of Government personnel.

If an emergency or unanticipated event interrupts normal Government processes so that proposals cannot be received at the Government office designated for receipt of proposals by the exact time specified in the announcement, and urgent Government requirements preclude amendment of the announcement closing date, the time specified for receipt of proposals will be deemed to be extended to the same time of day specified in the announcement on the first work day on which normal Government processes resume.

The contracting officer must promptly notify any offeror if its proposal, modifications, or revision was received late and must inform the offeror whether its proposal will be considered.

5. Submission of Grant Proposals to Grants.gov

Grant Proposals may be submitted through Grants.gov or by hard copy. Regardless of whether Grants.gov is used or "hardcopy" submission, the offeror must use the Grants.gov forms from the application package template associated with the BAA on the Grants.gov website. To be considered for award, applicants must include the ONR Department Code in Block 4 entitled 'Federal Identifier' of the Standard Form (SF) 424 R&R. **Please be sure to enter the Department Code that best relates to your proposal in Block 4 (Federal Identifier) of the SF 424 R&R to ensure that it is properly routed to the correct Program Office (by completing Blocks 18 and 19 the Grant Applicant will also be providing the certification on lobbying required by 32 CFR Part 28. Refer to Section VI, 'Award Administration Information' entitled "Certifications" for further information). Only one Department Code may be selected.** Please choose at the sub-Department level wherever possible (i.e., for parent ONR Code 30, you should select at the 301, 302 or 303 level if possible). A list of the Department Codes can be found at <http://www.onr.navy.mil/> on the right side of the

screen. Applicants who fail to provide a Department Code identifier will receive notification that their proposal submission has been rejected. However, White Papers should not be submitted through the Grants.gov Apply process but rather be sent directly to ONR. White paper submissions may be either mailed, faxed, or emailed directly to the appropriate ONR Program Officer/Program Manager.

For electronic submission of grant full proposals, there are several one-time actions that must be completed in order to submit an application through Grants.gov (e.g., obtain a Dun and Bradstreet Data Universal Numbering System (DUNS) number, register with the Central Contract Registry (CCR), register with the credential provider, and register with Grants.gov). See www.grants.gov, specifically www.grants.gov/GetStarted.

Use the Grants.gov Organization Registration Checklist at http://www.grants.gov/applicants/register_your_organization.jsp which will provide guidance through the process. Designating an E-Business Point of Contact (EBiz POC) and obtaining a special password called 'MPIN' are important steps in the CCR registration process. Applicants who are not registered with CCR and Grants.gov should allow at least 21 days to complete these requirements. It is suggested that the process be started as soon as possible. Additionally, in order to download the application package, applicants will need to install PureEdgeViewer. This small, free program will allow applicants to access, complete and submit applications electronically and securely. For a free version of the software, visit the following website: www.grants.gov/DownloadViewer. Any questions that may arise relating to the registration process, system requirements, how an application form works, or the submittal process must be directed to Grants.gov at 1-800-518-4726 or support@grants.gov.

Detailed instructions entitled "Grants.Gov Electronic Application and Submission Information" on how to submit a Grant proposal through Grants.gov may be found at the ONR website listed under the 'Acquisition Department – Contracts & Grants Submitting a Proposal' link at: http://www.onr.navy.mil/02/how_to.asp

6. Address for the Submission of Hard Copy White Papers and Full Proposals for Contracts and Grants.

Full proposals and white papers sent electronically or by fax will not be accepted. Hard copies of white papers and full proposals for Contracts and Grants (other than full proposals sent electronically through Grants.gov) should be sent to the Office of Naval Research at the following address:

Primary

Sheila Richardson
Electronics, Sensors, and Network Research Division
Code 312
Office of Naval Research
875 North Randolph Street – Suite 1105D
Arlington, VA 22203-1995
Telephone: (703) 696-0113

Secondary (If Primary Not Available)

Dr. Ingham A. Mack
Program Manager
Electronics, Sensors, and Networks Research Division
Code 312
Office of Naval Research
875 North Randolph Street – Suite 909
Arlington, VA 22203-1995
Telephone: (703) 696-4825

V. EVALUATION INFORMATION

1. Evaluation Criteria

The Office of Naval Research plans to make 1-2 awards depending on their value to the Government in accordance with the evaluation criteria listed below. The following evaluation criteria apply to white papers and full proposals:

These submissions will be selected through a technical/scientific/cost decision process with technical and scientific considerations being more important than cost. Even though cost is of less importance than all the technical factors combined, it will not be ignored. The degree of its importance will increase with the degree of equality of the proposals in relation to the other factors on which selection is to be based, or when the cost is so significantly high as to diminish the value of the technical superiority to the Government. Criteria (a-c) are listed in descending order of priority. Any sub-criteria listed under a particular criterion are of equal importance to each other.

- a. Overall scientific and technical merits of the proposal
 - i. The degree of innovation
 - ii. The soundness of technical concept
 - iii. The offeror's awareness of the state of the art and understanding of the scope of the problem, technical risk, and the technical effort needed to address the problem.

- b. Naval relevance, transition potential and anticipated contributions of the proposed technology
- c. Offeror's capabilities, related experience, and past performance, including the qualifications, capabilities and experience of the proposed principal personnel
 - i. The quality of technical personnel proposed
 - ii. The offeror's experience in relevant efforts with similar resources
 - iii. The ability to manage the proposed effort
- d. The realism of the proposed cost
 - i. Total cost relative to benefit
 - ii. Realism of cost levels for facilities and staffing

For proposed awards to be made as contracts to large businesses, the socio-economic merits of each proposal will be evaluated based on the extent of the Offeror's commitment in providing meaningful subcontracting opportunities for small businesses, small disadvantaged businesses, woman-owned small businesses, HUBZone small businesses, veteran-owned small businesses, service disabled veteran-owned small businesses, historically black colleges and universities, and minority institutions.

The Government will evaluate options for award purposes by adding the total cost for all options to the total cost for the base requirement. The evaluation of options will not obligate the Government to exercise the options at anytime during the performance period.

2. Evaluation Panel -

Technical and cost proposals submitted under this BAA will be protected from unauthorized disclosure in accordance with FAR 3.104-4 and 15.207. The cognizant Program Officer and other Government scientific experts will perform the evaluation of technical proposals. Cost proposals will be evaluated by Government business professionals. Restrictive notices notwithstanding, one or more support contractors may be utilized as subject-matter-expert technical consultants. Similarly, support contractors may be utilized to evaluate cost proposals. However, proposal selection and award decisions are solely the responsibility of Government personnel. Each support contractor's employee having access to technical and cost proposals submitted in response to this BAA will be required to sign a non-disclosure statement prior to receipt of any proposal submissions.

VI. AWARD ADMINISTRATION INFORMATION

1. Administrative Requirements –

- The North American Industry Classification System (NAICS) code – The North American Industry Classification System (NAICS) code for this announcement is

“541710” with a small business size standard of “500 employees”.

- Central Contractor Registry (CCR) - Successful Offerors not already registered in the CCR will be required to register in CCR prior to award of any grant, contract, cooperative agreement, or other transaction agreement. Information on CCR registration is available at <http://www.onr.navy.mil/02/ccr.htm>.
- Certifications – Proposals for contracts should be accompanied by a completed certification package which can be accessed on the ONR Home Page at Contracts & Grants located at http://www.onr.navy.mil/02/rep_cert.asp.

Contracts:

For contracts, in accordance with FAR 4.1201, prospective contractors shall complete and submit electronic annual representations and certifications at <http://orca.bpn.gov>. In addition to completing the Online Representations and Certifications Application (ORCA), proposals must be accompanied with a completed DFARS and contract specific representations and certifications. These "DFARS and Contract Specific Representations and Certifications", i.e., Section K, may be accessed under the Contracts and Grants Section of the ONR Home Page at http://www.onr.navy.mil/02/rep_cert.asp.

Assistance Agreements:

For grant proposals and proposals for cooperative agreements or other transaction agreements (other than for prototypes), the certification package is entitled Certifications for Grants and Agreements

Grant awards greater than \$100,000 require a certification of compliance with a national policy mandate concerning lobbying. Grant and other assistance applicants may provide this certification in one of three (3) ways:

- 1) By signing and submitting the Standard Form (SF) 424 (R&R) as a part of a hard copy grant proposal submission (complete Blocks 18 and 19);
- 2) By electronic submission of SF424 (R&R) as a part of an electronic proposal submitted via Grants.gov (complete Blocks 18 and 19); or
- 3) By hard copy submission of the full text lobbying certification found at http://www.onr.navy.mil/02/rep_cert.asp.

The following certification applies to each applicant seeking federal assistance funds exceeding \$100,000:

CERTIFICATION REGARDING LOBBYING ACTIVITIES

(1) No Federal appropriated funds have been paid or will be paid by or on behalf of the applicant, to any person for influencing or attempting to influence an officer or employee

of an agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.

(2) If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the Federal contract, grant, loan, or cooperative agreement, the applicant shall complete and submit Standard Form-LLL, "Disclosure Form to Report Lobbying," in accordance with its instructions.

(3) The applicant shall require that the language of this certification be included in the award documents for all subawards at all tiers (including subcontracts, subgrants, and contracts under grants, loans, and cooperative agreements) and that all subrecipients shall certify and disclose accordingly.

This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by Section 1352, title 31, U.S.C. Any person who fails to file the required certification shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.

- Subcontracting Plans - Successful contract proposals that exceed \$550,000, submitted by all but small business concerns, will be required to submit prior to award a Small Business Subcontracting Plan in accordance with FAR 52.219-9.

2. Reporting -

The following are samples of data deliverables that are typically required under a research effort:

- *Technical and Financial Progress Reports
- *Presentation Materials
- *Final Report

Additional data deliverables may be proposed and finalized during negotiations. Research performed under contracts may also include the delivery of software, prototypes, and other hardware deliverables.

VII. OTHER INFORMATION

1. Government Property/Government Furnished Equipment (GFE) and Facilities

Each proposer must provide a very specific description of any equipment/hardware that it needs to acquire to perform the work. This description should indicate whether or not

each particular piece of equipment/hardware will be included as part of a deliverable item under the resulting award. Also, this description should identify the component, nomenclature, and configuration of the equipment/hardware that it proposes to purchase for this effort. The purchase on a direct reimbursement basis of special test equipment or other equipment that is not included in a deliverable item will be evaluated for allowability on a case-by-case basis. Maximum use of Government integration, test, and experiment facilities is encouraged in each of the Offeror's proposals.

Government research facilities and operational military units are available and should be considered as potential government-furnished equipment/facilities. These facilities and resources are of high value and some are in constant demand by multiple programs. It is unlikely that all facilities would be used for any one specific program. The use of these facilities and resources will be negotiated as the program unfolds. Offerors should explain as part of their proposals which of these facilities are critical for the project's success.

2. Security Classification

In order to facilitate intra-program collaboration and technology transfer, the Government will attempt to enable technology developers to work at the unclassified level to the maximum extent possible. If access to classified material will be required at any point during performance, the Offeror must clearly identify such need prominently in its proposal.

3. Use of Animals and Human Subjects in Research

If animals are to be utilized in the research effort proposed, the Offeror must complete a DOD Animal Use Protocol with supporting documentation (copies of AALAC accreditation and/or NIH assurance, IACUC approval, research literature database searches, and the two most recent USDA inspection reports) prior to award. For assistance with submission of animal research related documentation, contact the ONR Animal/Human Use Administrator at (703) 696-4046.

Similarly, for any proposal for research involving human subjects the Offeror must submit prior to award: documentation of approval from an Institutional Review Board (IRB); IRB-approved research protocol; IRB-approved informed consent form; proof of completed human research training (e.g., training certificate or institutional verification of training); an application for a DoD Navy Addendum to the Offeror's DHHS-issued Federalwide Assurance (FWA) or the Offeror's DoD Navy Addendum number. In the event that an exemption criterion under 32 CFR.219.101(b) is claimed, provide documentation of the determination by the Institutional Review Board (IRB) Chair, IRB Vice Chair, designated IRB administrator or official of the human research protection program. Information about assurance applications and forms can be obtained by contacting ONR_343_contact@navy.mil . If the research is determined by the IRB to be greater than minimal risk, the Offeror also must provide the name and contact information for the independent medical monitor. [Note: for research involving human

subjects that is greater than minimal risk, administrative procedures to protect human subjects from medical expenses (not otherwise provided or reimbursed) that are the direct result of participation in a research project must be addressed. Additional supporting documentation may be requested. For additional information on this topic, email ONR_343_contact@navy.mil.] For assistance with submission of human subject research related documentation, contact the ONR Animal/Human Use Administrator at (703) 696-4046.

4. Department of Defense High Performance Computing Program

The DoD High Performance Computing Program (HPCMP) furnishes the DoD S & T and RDT & E communities with use-access to very powerful high performance computing systems. Awardees of ONR contracts, grants, and assistance instruments may be eligible to use HPCMP assets in support of their funded activities if ONR Program Officer approval is obtained and if security/screening requirements are favorably completed. Additional information and an application may be found at <http://www.hpcmo.hpc.mil/>.

5. Protection of Proprietary and Sensitive Information

The parties acknowledge that, during performance of the contract or grant agreement resulting from this BAA, the recipient may require access to certain proprietary and confidential information (whether in its original or derived form) submitted to or produced by the Government. Such information includes, but is not limited to, business practices, proposals, designs, mission or operation concepts, sketches, management policies, cost and operating expense, technical data and trade secrets, proposed Navy budgetary information, and acquisition planning or acquisition actions, obtained either directly or indirectly as a result of the effort performed on behalf of ONR. The recipient shall take appropriate steps not only to safeguard such information, but also to prevent disclosure of such information to any party other than the Government. The recipient agrees to indoctrinate company personnel who will have access to or custody of the information concerning the nature of the confidential terms under which the Government received such information and shall stress that the information shall not be disclosed to any other party or to recipient personnel who do not need to know the contents thereof for the performance of the contract/agreement. Recipient personnel shall also be informed that they shall not engage in any other action, venture, or employment wherein this information will be used for any purpose by any other party.

6. Project Meetings and Reviews

Individual program reviews between the ONR sponsor and the performer may be held as necessary. Program status reviews may also be held to provide a forum for reviews of the latest results from experiments and any other incremental progress towards the major demonstrations. These meetings will be held at various sites throughout the country. For costing purposes, offerors should assume that 40% of these meetings will

be at or near ONR, Arlington VA and 60% at other contractor or government facilities. Interim meetings are likely, but these will be accomplished via video telephone conferences, telephone conferences, or via web-based collaboration tools.

7. Submission of Questions

Any questions regarding this solicitation must be provided to the Science and Technology Point of Contact and/or Business Point of Contact listed in this solicitation (pages 3-4). All questions shall be submitted in writing by electronic mail.

Questions regarding **white papers** must be submitted by 2:00 P.M. Eastern Daylight Time on Friday 28 March 2008. Questions after this date and time may not be answered, and the due date for submission of the white papers will not be extended.

Questions regarding **full proposals** must be submitted by 2:00 P.M. Eastern Daylight Time on Tuesday 8 July 2008. Questions after this date and time may not be answered, and the due date for submission of the proposals will not be extended